


In the Claims

1. (currently amended) A solid of formula $\text{BiOI} \cdot (\text{BiOX})_j \cdot (\text{BiOL})_k$ wherein

X is Cl, Br, F or a mixture $(\text{Br})_m(\text{Cl})_n(\text{F})_o \times \frac{1}{m+n+o}$, ~~$(\text{Br})_m(\text{Cl})_n(\text{F})_o \times \frac{1}{m+n+o}$~~

L is CN, NC, NCO, NCS, O-Z, S-Z or a mixture of different moieties selected from CN, NC, NCO, NCS, O-Z and S-Z,

Z is COR_1 , COOR_1 , CONR_1R_2 , CN, CSR_1 , COSR_1 , CSOR_1 , SO_2R_1 , SO_3R_1 , , or $\text{C}_6\text{-C}_{24}\text{aryl}$ or $\text{C}_2\text{-C}_{24}\text{heteroaryl}$ each $\text{C}_6\text{-C}_{24}\text{aryl}$ or $\text{C}_2\text{-C}_{24}\text{heteroaryl}$ unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $\text{NR}_3\text{R}_4\text{R}_5^+$, NR_5COR_3 , $\text{NR}_5\text{CONR}_3\text{R}_4$, R_3 , OR_3 , SR_3 , CHO, $\text{CR}_5\text{OR}_3\text{OR}_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3R_3 , $\text{SO}_2\text{NR}_3\text{R}_4$, COO^- , COOR_3 , CONR_3R_4 , PO_3^- , $\text{PO}(\text{OR}_3)(\text{OR}_4)$, $\text{SiR}_5\text{R}_6\text{R}_7$, $\text{OSiR}_5\text{R}_6\text{R}_7$ and/or by $\text{SiOR}_5\text{OR}_6\text{OR}_7$;

j is a number from 0 to 4,

k is a number from 0.005 to 3;

m, n and o are each a number from 0 to 10^6 , but m, n and o are not all simultaneously 0;

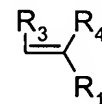
R_1 is $\text{C}_3\text{-C}_{24}\text{alkyl}$, $\text{C}_3\text{-C}_{24}\text{alkenyl}$, $\text{C}_3\text{-C}_{24}\text{alkynyl}$, $\text{C}_3\text{-C}_{24}\text{cycloalkyl}$, $\text{C}_3\text{-C}_{24}\text{cycloalkenyl}$ or $\text{C}_2\text{-C}_{12}\text{heterocycloalkyl}$ each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $\text{NR}_3\text{R}_4\text{R}_5^+$, NR_5COR_3 , $\text{NR}_5\text{CONR}_3\text{R}_4$, OR_3 , SR_3 , OBiO , SBiO , COO^- , COOH , COOR_3 , CHO, $\text{CR}_5\text{OR}_3\text{OR}_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3H , SO_3R_3 and/or by $\text{OSiR}_5\text{R}_6\text{R}_7$ or R_1 is $\text{C}_6\text{-C}_{24}\text{aryl}$, $\text{C}_7\text{-C}_{24}\text{aralkyl}$, $\text{C}_8\text{-C}_{24}\text{aralkenyl}$ or $\text{C}_2\text{-C}_{24}\text{heteroaryl}$ each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $\text{NR}_3\text{R}_4\text{R}_5^+$, NR_5COR_3 , $\text{NR}_5\text{CONR}_3\text{R}_4$, R_3 , OR_3 , SR_3 , CHO, $\text{CR}_5\text{OR}_3\text{OR}_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3R_3 , $\text{SO}_2\text{NR}_3\text{R}_4$, COO^- , COOR_3 , CONR_3R_4 , PO_3^- , $\text{PO}(\text{OR}_3)(\text{OR}_4)$, $\text{SiR}_5\text{R}_6\text{R}_7$, $\text{OSiR}_5\text{R}_6\text{R}_7$ and/or by $\text{SiOR}_5\text{OR}_6\text{OR}_7$;

R_2 , independently of R_1 , is hydrogen or R_1 , wherein R_1 and R_2 may be linked to one another by means of a direct bond or a bridge $-\text{O}-$, $-\text{S}-$ or $-\text{NC}_1\text{-C}_8\text{alkyl}-$ so that altogether a five- or six-membered ring is formed;

R_3 and R_4 are each independently of the other hydrogen, CN, OR_5 , COO^- , COOH, $COOR_5$, $CONR_5R_6$, COR_5 , SO_2R_5 , SO_3^- , SO_3H , SO_3R_5 or $OSiR_5R_6R_7$; or C_1 - C_{24} alkyl, C_2 - C_{24} alkenyl, C_2 - C_{24} alkynyl, C_3 - C_{24} cycloalkyl, C_3 - C_{24} cycloalkenyl or C_2 - C_{12} heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_5R_6 , $NR_5R_6R_7^+$, NR_5COR_7 , $NR_5CONR_6R_7$, OR_5 , SR_5 , COO^- , COOH, $COOR_5$, CHO, $CR_5OR_6OR_7$, COR_5 , SO_2R_5 , SO_3^- , SO_3H , SO_3R_5 and/or by $OSiR_5R_6R_7$; or C_7 - C_{18} aralkyl, C_6 - C_{14} aryl or C_2 - C_{13} heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_5R_6 , $NR_5R_6R_7^+$, NR_5COR_6 , $NR_5CONR_6R_7$, R_5 , OR_5 , SR_5 , CHO, $CR_5OR_6OR_7$, COR_5 , SO_2R_5 , SO_3^- , $SO_2NR_5R_6$, COO^- , $COOR_7$, $CONR_5R_6$, PO_3^- , $PO(OR_5)(OR_6)$, $SiR_5R_6R_7$, $OSiR_5R_6R_7$ and/or by $SiOR_5OR_6OR_7$,

or NR_3R_4 is a five- or six-membered heterocycle which may optionally contain a further nitrogen or oxygen atom and which may be mono- or poly-substituted by C_1 - C_8 alkyl; and

R_5 , R_6 and R_7 are each independently of the others hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl, C_7 - C_{18} aralkyl, C_6 - C_{14} aryl or C_2 - C_{13} heteroaryl, wherein R_5 and R_6 and/or R_6 and R_7 may be linked to one another by means of a direct bond or a bridge $-O-$, $-S-$ or $-NC_1-C_8$ alkyl- so that altogether a five- or six-membered ring is formed.



2. (previously presented) A solid according to claim 1, wherein Z is CN, COR_1 , SO_3R_1 , unsubstituted or substituted C_6 - C_{24} aryl; R_1 is unsubstituted or substituted C_3 - C_{24} alkyl, C_3 - C_{24} alkenyl, C_6 - C_{24} aryl or C_8 - C_{24} aralkenyl; R_3 and R_4 are each independently of the other hydrogen, CN, OR_5 , $COOR_5$, $CONR_5R_6$ or COR_5 , or unsubstituted or substituted C_1 - C_{24} alkyl, C_7 - C_{18} aralkyl or C_6 - C_{14} aryl; or NR_3R_4 is a five- or six-membered heterocycle which may optionally contain a further nitrogen or oxygen atom and which may be mono- or poly-substituted by C_1 - C_8 alkyl; R_5 , R_6 and R_7 are each independently of the others hydrogen, C_1 - C_{20} alkyl, C_2 - C_{20} alkenyl, C_2 - C_{20} alkynyl or C_7 - C_{18} aralkyl, wherein R_5 and R_6 and/or R_6 and R_7 may be linked to one another by means of a direct bond or a bridge $-O-$, $-S-$ or $-NC_1-C_8$ alkyl- so that altogether a five- or six-membered ring is formed; and R_5 , R_6 and R_7 themselves may be substituted.

3. (original) A solid according to claim 2, wherein R_1 is C_6 - C_{24} aryl or C_8 - C_{24} aralkenyl each substituted by one, two or three radicals selected from the group consisting of OR_3 , NR_3R_4 and NO_2 .

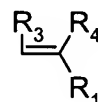
4. (currently amended) A solid according to claim 1 which is a solid solution ~~mainly or exclusively~~ in the crystal lattice of bismuth oxyhalide, wherein the two most intense reflections in the X-ray powder diagram are in the range from 27 to 32 2θ .

5. (previously presented) A solid according to claim 1, wherein the sum $j+k$ is from 0.1 to 3 and the ratio $m:n$ is from 3:2 to 5:1.

6. (currently amended) A process for the preparation of a bismuth oxyhalide by combining I^- and, optionally, X^- with a solution of BiO^+ or Bi^{3+} ions in a solvent under conditions such that a solid which is insoluble in the solvent precipitates out, in which process L^- or LH is present in the solvent during precipitation of the solid, and the solid precipitating out is of formula $BiOI \cdot (BiOX)_j \cdot (BiOL)_k$, wherein j is a number from 0 to 4 and k is a number from 0.005 to 3

X is Cl, Br, F or a mixture $(Br)_m(Cl)_n(F)_o \times \frac{1}{m+n+o}$

L is CN, NC, NCO, NCS, O-Z, S-Z or a mixture of different moieties selected from CN, NC, NCO, NCS, O-Z and S-Z,



Z is COR_1 , $COOR_1$, $CONR_1R_2$, CN, CSR_1 , $COSR_1$, $CSOR_1$, SO_2R_1 , SO_3R_1 , $\frac{R_3R_4}{R_1}$, or C_6-C_{24} aryl or C_2-C_{24} heteroaryl each C_6-C_{24} aryl or C_2-C_{24} heteroaryl unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $NR_3R_4R_5^+$, NR_5COR_3 , $NR_5CONR_3R_4$, R_3 , OR_3 , SR_3 , CHO, $CR_5OR_3OR_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3R_3 , $SO_2NR_3R_4$, COO^- , $COOR_3$, $CONR_3R_4$, PO_3^- , $PO(OR_3)(OR_4)$, $SiR_5R_6R_7$, $OSiR_5R_6R_7$ and by $SiOR_5OR_6OR_7$;

m , n and o are each a number from 0 to 10^6 , but m , n and o are not all simultaneously 0;

R_1 is C_3-C_{24} alkyl, C_3-C_{24} alkenyl, C_3-C_{24} alkynyl, C_3-C_{24} cycloalkyl, C_3-C_{24} cycloalkenyl or C_2-C_{12} heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $NR_3R_4R_5^+$, NR_5COR_3 , $NR_5CONR_3R_4$, OR_3 , SR_3 , $OBiO$, $SBiO$, COO^- , $COOH$, $COOR_3$, CHO, $CR_5OR_3OR_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3H , SO_3R_3 and/or by $OSiR_5R_6R_7$ or R_1 is C_8-C_{24} aryl, C_7-C_{24} aralkyl, C_8-C_{24} aralkenyl or C_2-C_{24} heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $NR_3R_4R_5^+$, NR_5COR_3 , $NR_5CONR_3R_4$, R_3 , OR_3 , SR_3 , CHO, $CR_5OR_3OR_4$,

COR₃, SO₂R₃, SO₃⁻, SO₃R₃, SO₂NR₃R₄, COO⁻, COOR₃, CONR₃R₄, PO₃⁻, PO(OR₃)(OR₄), SiR₅R₆R₇, OSiR₅R₆R₇ and/or by SiOR₅OR₆OR₇;

R₂, independently of R₁, is hydrogen or R₁, wherein R₁ and R₂ may be linked to one another by means of a direct bond or a bridge -O-, -S- or -NC₁-C₈alkyl- so that altogether a five- or six-membered ring is formed;

R₃ and R₄ are each independently of the other hydrogen, CN, OR₅, COO⁻, COOH, COOR₅, CONR₅R₆, COR₅, SO₂R₅, SO₃⁻, SO₃H, SO₃R₅ or OSiR₅R₆R₇; or C₁-C₂₄alkyl, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₃-C₂₄cycloalkyl, C₃-C₂₄cycloalkenyl or C₂-C₁₂heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₅R₆, NR₅R₆R₇⁺, NR₅COR₇, NR₅CONR₆R₇, OR₅, SR₅, COO⁻, COOH, COOR₅, CHO, CR₅OR₆OR₇, COR₅, SO₂R₅, SO₃⁻, SO₃H, SO₃R₅ and/or by OSiR₅R₆R₇; or C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₂-C₁₃heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₅R₆, NR₅R₆R₇⁺, NR₅COR₆, NR₅CONR₆R₇, R₅, OR₅, SR₅, CHO, CR₅OR₆OR₇, COR₅, SO₂R₅, SO₃⁻, SO₂NR₅R₆, COO⁻, COOR₇, CONR₅R₆, PO₃⁻, PO(OR₅)(OR₆), SiR₅R₆R₇, OSiR₅R₆R₇ and/or by SiOR₅OR₆OR₇,

or NR₃R₄ is a five- or six-membered heterocycle which may optionally contain a further nitrogen or oxygen atom and which may be mono- or poly-substituted by C₁-C₈alkyl; and

R₅, R₆ and R₇ are each independently of the others hydrogen, C₁-C₂₀alkyl, C₂-C₂₀alkenyl, C₂-C₂₀alkynyl, C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₂-C₁₃heteroaryl, wherein R₅ and R₆ and/or R₆ and R₇ may be linked to one another by means of a direct bond or a bridge -O-, -S- or -NC₁-C₈alkyl- so that altogether a five- or six-membered ring is formed.

7. (original) A process according to claim 6, wherein the precipitation is carried out at a pH of from 1 to 9.

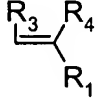
8. (currently amended) Platelets having a length of from 2 μm to 5 mm, a width of from 2 μm to 2 mm and a thickness of from 50 nm to 1.5 μm, the ratio of length to height being at least 5:1, the ratio of width to height being at least 3:1, and the ratio of length to width being at most 5:1, which platelets are coated with a solid of formula BiOI·(BiOX)_j·(BiOL)_k according to claim 1., wherein j is a number from 0 to 4 and k is a number from 0.005 to 3.

9. (previously presented) Platelets according to claim 8, coated with from 1 to 1000 % by weight, based on the uncoated platelets, of solid of formula $\text{BiOI} \cdot (\text{BiOX})_j \cdot (\text{BiOL})_k$.

10. (currently amended) A process for the coating of particles with bismuth oxyhalide by combining I and, optionally, X^- with a solution of BiO^+ or Bi^{3+} ions in a solvent under conditions such that a solid which is insoluble in the solvent precipitates out, in which process L^- or LH is present in the solvent during precipitation of the solid, and the particles are coated with a solid of formula $\text{BiOI} \cdot (\text{BiOX})_j \cdot (\text{BiOL})_k$, wherein j is a number from 0 to 4 and k is a number from 0.005 to 3

X is Cl, Br, F or a mixture $(\text{Br})_m(\text{Cl})_n(\text{F})_o \times \frac{1}{m+n+o}$.

L is CN, NC, NCO, NCS, O-Z, S-Z or a mixture of different moieties selected from CN, NC, NCO, NCS, O-Z and S-Z.

Z is COR_1 , COOR_1 , CONR_1R_2 , CN, CSR_1 , COSR_1 , CSOR_1 , SO_2R_1 , SO_3R_1 , , or $\text{C}_6\text{-C}_{24}\text{aryl}$ or $\text{C}_2\text{-C}_{24}\text{heteroaryl}$ each $\text{C}_6\text{-C}_{24}\text{aryl}$ or $\text{C}_2\text{-C}_{24}\text{heteroaryl}$ unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $\text{NR}_3\text{R}_4\text{R}_5^+$, NR_5COR_3 , $\text{NR}_5\text{CONR}_3\text{R}_4$, R_3 , OR_3 , SR_3 , CHO, $\text{CR}_5\text{OR}_3\text{OR}_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3R_3 , $\text{SO}_2\text{NR}_3\text{R}_4$, COO^- , COOR_3 , CONR_3R_4 , PO_3^- , $\text{PO}(\text{OR}_3)(\text{OR}_4)$, $\text{SiR}_5\text{R}_6\text{R}_7$, $\text{OSiR}_5\text{R}_6\text{R}_7$ and by $\text{SiOR}_5\text{OR}_6\text{OR}_7$;

m, n and o are each a number from 0 to 10^6 , but m, n and o are not all simultaneously 0;

R_1 is $\text{C}_3\text{-C}_{24}\text{alkyl}$, $\text{C}_3\text{-C}_{24}\text{alkenyl}$, $\text{C}_3\text{-C}_{24}\text{alkynyl}$, $\text{C}_3\text{-C}_{24}\text{cycloalkyl}$, $\text{C}_3\text{-C}_{24}\text{cycloalkenyl}$ or $\text{C}_2\text{-C}_{12}\text{heterocycloalkyl}$ each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $\text{NR}_3\text{R}_4\text{R}_5^+$, NR_5COR_3 , $\text{NR}_5\text{CONR}_3\text{R}_4$, OR_3 , SR_3 , OBiO , SBiO , COO^- , COOH , COOR_3 , CHO, $\text{CR}_5\text{OR}_3\text{OR}_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3H , SO_3R_3 and/or by $\text{OSiR}_5\text{R}_6\text{R}_7$ or R_1 is $\text{C}_6\text{-C}_{24}\text{aryl}$, $\text{C}_7\text{-C}_{24}\text{aralkyl}$, $\text{C}_8\text{-C}_{24}\text{aralkenyl}$ or $\text{C}_2\text{-C}_{24}\text{heteroaryl}$ each unsubstituted or mono- or poly-substituted by halogen, NO_2 , CN, NR_3R_4 , $\text{NR}_3\text{R}_4\text{R}_5^+$, NR_5COR_3 , $\text{NR}_5\text{CONR}_3\text{R}_4$, R_3 , OR_3 , SR_3 , CHO, $\text{CR}_5\text{OR}_3\text{OR}_4$, COR_3 , SO_2R_3 , SO_3^- , SO_3R_3 , $\text{SO}_2\text{NR}_3\text{R}_4$, COO^- , COOR_3 , CONR_3R_4 , PO_3^- , $\text{PO}(\text{OR}_3)(\text{OR}_4)$, $\text{SiR}_5\text{R}_6\text{R}_7$, $\text{OSiR}_5\text{R}_6\text{R}_7$ and/or by $\text{SiOR}_5\text{OR}_6\text{OR}_7$;

R₂, independently of R₁, is hydrogen or R₁, wherein R₁ and R₂ may be linked to one another by means of a direct bond or a bridge -O-, -S- or -NC₁-C₈alkyl- so that altogether a five- or six-membered ring is formed;

R₃ and R₄ are each independently of the other hydrogen, CN, OR₅, COO⁻, COOH, COOR₅, CONR₅R₆, COR₅, SO₂R₅, SO₃⁻, SO₃H, SO₃R₅ or OSiR₅R₆R₇; or C₁-C₂₄alkyl, C₂-C₂₄alkenyl, C₂-C₂₄alkynyl, C₃-C₂₄cycloalkyl, C₃-C₂₄cycloalkenyl or C₂-C₁₂heterocycloalkyl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₅R₆, NR₅R₆R₇⁺, NR₅COR₇, NR₅CONR₆R₇, OR₅, SR₅, COO⁻, COOH, COOR₅, CHO, CR₅OR₆OR₇, COR₅, SO₂R₅, SO₃⁻, SO₃H, SO₃R₅ and/or by OSiR₅R₆R₇; or C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₂-C₁₃heteroaryl each unsubstituted or mono- or poly-substituted by halogen, NO₂, CN, NR₅R₆, NR₅R₆R₇⁺, NR₅COR₆, NR₅CONR₆R₇, R₅, OR₅, SR₅, CHO, CR₅OR₆OR₇, COR₅, SO₂R₅, SO₃⁻, SO₂NR₅R₆, COO⁻, COOR₇, CONR₅R₆, PO₃⁻, PO(OR₅)(OR₆), SiR₅R₆R₇, OSiR₅R₆R₇ and/or by SiOR₅OR₆OR₇,

or NR₃R₄ is a five- or six-membered heterocycle which may optionally contain a further nitrogen or oxygen atom and which may be mono- or poly-substituted by C₁-C₈alkyl; and

R₅, R₆ and R₇ are each independently of the others hydrogen, C₁-C₂₀alkyl, C₂-C₂₀alkenyl, C₂-C₂₀alkynyl, C₇-C₁₈aralkyl, C₆-C₁₄aryl or C₂-C₁₃heteroaryl, wherein R₅ and R₆ and/or R₆ and R₇ may be linked to one another by means of a direct bond or a bridge --O-, -S- or -NC₁-C₈alkyl- so that altogether a five- or six-membered ring is formed.

11. (original) A process according to claim 10, wherein the particles are in suspension in the solvent during precipitation of the solid.

12. (original) A process according to claim 11, wherein the coating is carried out subsequently to preparation of the particles without intermediate isolation.

13. (previously presented) A substance composition comprising a solid according to claim 1, and also at least one further white, black, coloured or effect pigment.

14. (currently amended) A substance composition comprising ~~a high molecular weight~~ an organic material having a molecular weight of at least 10³ g/mol and from 0.01 to 80 % by weight, based on the high molecular weight organic material, of a solid according to claim 1.

15. (previously presented) A solid according to claim 1, wherein j is a number from 0.5 to 1.2, and k is a number from 0.05 to 2.

16. (previously presented) A solid according to claim 1, wherein n is from 0 to 10^4 and o is from 0 to 10^2 ;

17. (previously presented) A process according to claim 6, wherein j is a number from 0.5 to 1.2 and k is a number from 0.05 to 2.

18. (previously presented) platelets according to claim 8, wherein j is a number from 0.5 to 1.2, and k is a number from 0.05 to 2.

19. (previously presented) A substance composition comprising platelets according to claim 8 and also at least one further white, black, coloured or effect pigment.

20. (currently amended) A substance composition comprising ~~a high molecular weight~~ an organic material having a molecular weight of at least 10^3 g/mol and from 0.01 to 80 % by weight, based on the high molecular weight organic material, of platelets according to claim 8.